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ATLONA®
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Atlona Multifunctional Audio/Video Scaler

AT-LINE-PRO2

User Manual

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Introduction

Thank you for purchasing the AT-LINE-PRO2 Multifunctional Audio/Video scaler. This product has many innovative features that will prove absolutely useful to you. Please read these instructions carefully as it will guide you through the most of the setup process. In case of assistance with troubleshooting, please contact us.

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WARRANTY

LIMITED ONE-YEAR WARRANTY

ATLONA by Lenexpo Electronics warrants only to the initial purchaser of this product for a period of one year from the date of purchase from an Authorized ATLONA Reseller, the product will be free of electrical and mechanical defects that materially affect the products operation as described in this users manual. Within this period, ATLONA will, at it's sole option, repair or replace any components, which fail of normal use or refund the net original price.

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SAFETY INFORMATION

Safeguards

- To reduce the risk of electric shock, do not expose this product to rain or moisture.
- If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.
- Do not modify the wall plug. Doing so will void the warranty and safety features.
- this equipment should be installed near the socket outlet and the device should be easily accesible in case it requires disconnection.

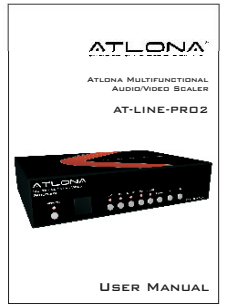
Precautions

- FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.
- Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.
- In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.
- Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product.
- Avoid excessive humidity, sudden temperature changes or temperature extremes.
- Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.
- Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.
- Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.
- Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-AVSC41. Opening the product will void the warranty.
- Do not attempt to service the unit. Instead disconnect it and contact your Authorised ATLONA reseller or contact ATLONA directly.

Multifunctional
Audio/Video Scaler

Universal Power Supply

User Manual



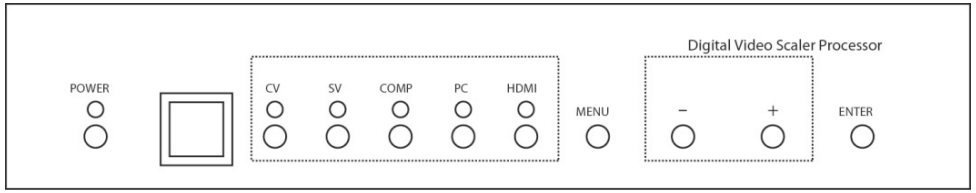
Before You Begin

HDMI Output: this unit is capable of scaling the video signal to a range of resolutions - from 480p all the way to 1080p including some PC resolutions. Please make sure that your display, which is to be connected to this video scaler, complies with scalers output capabilities. Some displays are not capable of accepting certain resolutions on HDMI input.

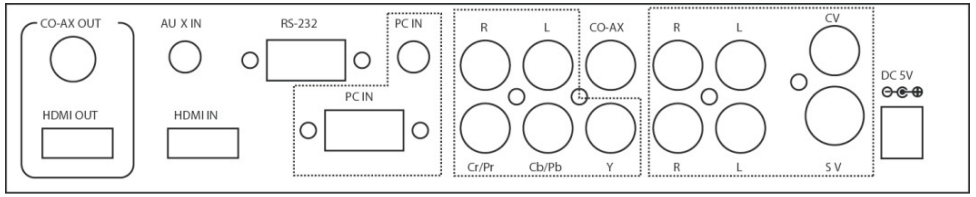
Please make sure that the length of your HDMI cable, does not exceed 20m/66ft. In case it does, your system might require a booster, repeater or an extender.

ILLUSTRATION

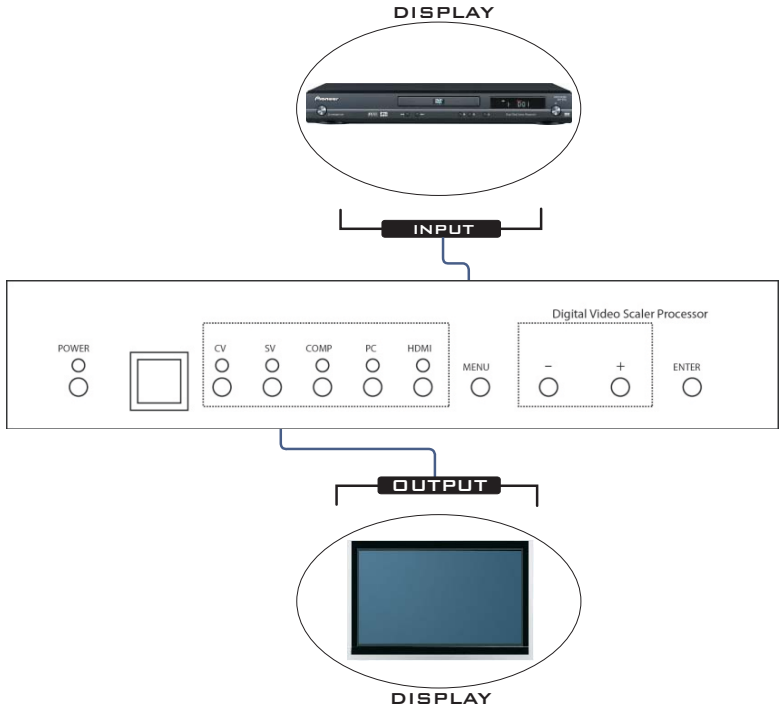
Front Panel



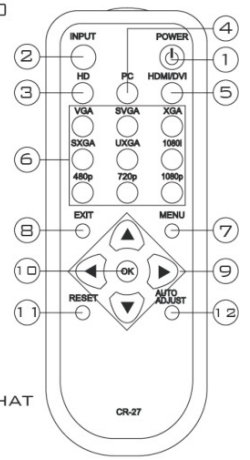
Rear Panel



INSTALLATION



SET-UP



1 **POWER:**
Press the button once to power on the AT-LINE-PRO Press again to enter standby mode.

2 **INPUT:**
Press the button repeatedly to toggle through various input sources.

3 **HD INPUT:**
Press the button to directly select component video input.

4 **PC INPUT:**
Press the button to directly select PC input.

5 **HDMI/DVI INPUT:**
Press the button to directly select HDMI input.

6 **OUTPUT RESOLUTION:**
Press any of the buttons to directly select an output resolution. For other output resolutions that are not covered by theese buttons, please use OSD meny for resolution selection.

7 **MENU:**
Press the button to activate an on screen menu page.

8 **EXIT:**
Press this button to exit from a sub menu or main menu.

9 **UP/DOWN/LEFT/RIGHT** navigation:
Press UP/DOWN button to move the highlighter bar to the desired parameter in OSD menu. Press LEFT/RIGHT to increase/decrease the setting value of a selected parameter.

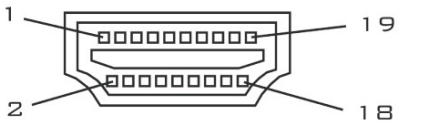
10 **OK:**
Pressing this button will confirm the selection.

11 **RESET:**
Press this button to reset the unit to the default factory settings.

12 **AUTO ADJUST:**
Press the button to optimize the position of the picture on the screen. (picture centering).

HDMI PIN CONFIGURATION:

HDMI Connector Pin Assignment



Pin#	Function Assignment	Pin#	Function Assignment
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

FEATURES

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant.
- Scales any PC (VGA ~ WUXGA) /HD (480i ~ 1080p) resolutions to/from another PC/HD resolutions.
- Automatically detect the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected.
- Supports 50/60Hz frame rate conversion.
- Supports 3-D motion video adaptive, 3-D de-interlacing, and 3:2 / 2:2 pull-down detection and recovery.
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (color tone) level, and aspect ratio size.
- Supports high resolution input/output:

PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA
HDTV: 480i, 576i, 480p, 576p, 720p, 1080i, and 1080p

- Supports digital and analog audio input and output

FRONT PANEL CONTROLS:

Main panel of the scaler consists of 10 buttons, lets take a look at their functions beggining with the one to the left.

1) Power Button - controls ON/OFF function
2-6) Input Buttons - each button allows a direct selection of a designated input
7) Menu Button - acts as menu activation and "enter" in the OSD menu
8-9) " - ", "+" buttons - advanced menu controls

On the first tier of OSD menu, use + and - buttons to move up/down the highlight item for selection. Once the desired option is selected, use + and - buttons to toggle between setting values.

10) Enter Button - In OSD menu, use the ENTER button to confirm the selection.

See Page 5 for OSD menu layout

OSD MENU

1st Tier Option	2nd Tier Option	Adjustment
VIDEO	- PICTURE MODE	USER / STANDARD / VIVID / MOVIE
	- CONTRAST	0 ~ 100 of Contrast Level
	- BRIGHTNESS	0 ~ 100 of Brightness Level
	- HUE	0 ~ 100 of Hue Level
	- SATURATION	0 ~ 100 of Saturation Level
	- SHARPNESS	0 ~ 100 of Sharpness Level
	- SCALE	OVERSCAN / UNDERSCAN / LETTERBOX / PANSCAN / FULL
	- NR	LOW / MIDDLE / HIGH / OFF
	- EXIT	Back to the 1st Tier
COLOR	- COLOR TONE	USER / NORMAL / WARM / COOL
	- RED	0 ~ 100 of Red Color Level
	- GREEN	0 ~ 100 of Green Color Level
	- BLUE	0 ~ 100 of Blue Color Level
	- EXIT	Back to the 1st Tier
OUTPUT	-	NATIVE/VGA/SVGA/XGA/SXGA /UXGA/480I/480P/720P@60Hz /1080I@,60Hz/1080P@60Hz /576I/576P/720P@50Hz/1080I@50Hz /1080P@50Hz/WXGA/WSXGA/WUXGA
OSD	- HPOSITION	0 ~ 100 of OSD Horizontal Position
	- VPOSITION	0 ~ 100 of OSD Vertical Position
	- TIMER	0 ~ 100 of OSD Show Time (sec.)
	- TRANSP	0 ~ 100 of OSD Transparent Level
	- EXIT	Back to the 1st Tier
AUDIO	- SOURCE	HDMI / L/R / COAXIAL
	- DELAY	OFF / 40MS / 110MS / 150 MS
	- SOUND	ON / MUTE
	- EXIT	Back to the 1st Tier
INFORMATION	-	SOURCE (Input interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT	-	Close the OSD Menu

Output Format

The format of digital HDMI output is digital RGB for all resolutions

INPUT	
PC	VGA@(60/72/75/85Hz), SVGA@(56/60/72/75/85Hz), XGA@(60/70/75/85Hz), SXGA@(60/75/85Hz), UXGA@60Hz, WXGA@60Hz, WSXGA@60Hz, WUXGA@60Hz
TV	480i, 480p, 576i, 576p, 720p@(50/60Hz), 1080i@(25/30Hz), 1080p@(50/60Hz)
OUTPUT	
PC	VGA@(60/72/75/85Hz), SVGA@(56/60/72/75/85Hz), XGA@(60/70/75/85Hz), SXGA@(60/75/85Hz), UXGA@60Hz, WXGA@60Hz, WSXGA@60Hz, WUXGA@60Hz
TV	480i, 480p, 576i, 576p, 720p@(50/60Hz), 1080i@(25/30Hz), 1080p@(50/60Hz)

General Specifications

- Frequency bandwidth: 1.65Gbps (single link)
- Input Ports:

Composite x 1 / L/R x 1
S-Video x 1 / L/R x 1
Component (3 RCA) x 1 / L/R x 1
PC D-Sub (15-pin) x 1 / 3.5mm Phone Jack x 1
HDMI x 1 / 3.5mm Phone Jack x 1 (for DVI)
Coaxial (S/PDIF) x 1

- Output Ports:

HDMI x 1
Coaxial (S/PDIF) x 1

- 5V DC power supply
- Dimensions: 215(W) x 154(D) x 47(H)mm
- Weight: 1Kgs (2.2lbs)